

**Amendments to the Claims:**

This listing of claims replaces any and all prior claim lists.

**Listing of Claims:**

Claim 1 (original). A carbon nanotube composition that contains a conducting polymer (a), a solvent (b) and carbon nanotubes (c).

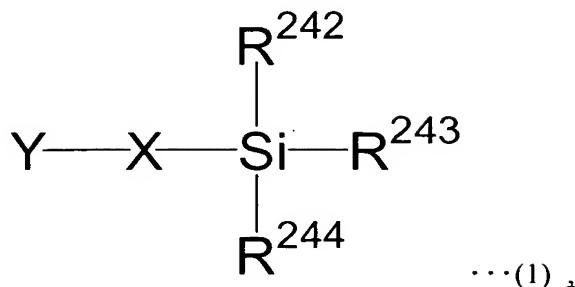
Claim 2 (original). A carbon nanotube composition that contains a heterocyclic compound trimer (i), a solvent (b) and carbon nanotubes (c).

Claim 3 (currently amended). A carbon nanotube composition according to claim 1 ~~or claim 2~~, wherein the carbon nanotube composition additionally contains a high molecular weight compound (d).

Claim 4 (currently amended). A carbon nanotube composition according to ~~any one of claims 1 to 3~~ claim 1, wherein the carbon nanotube composition additionally contains a basic compound (e).

Claim 5 (currently amended). A carbon nanotube composition according to ~~any one of claims 1 to 4~~ claim 1, wherein the carbon nanotube composition additionally contains a surfactant (f).

Claim 6 (currently ameded). A carbon nanotube composition according to ~~any one of claims 1 to 5~~ claim 1, wherein the carbon nanotube composition additionally contains a silane coupling agent (g) represented by the following formula (1):



~~(in the formula (1), wherein in the formula (1)~~  $R^{242}$ ,  $R^{243}$  and  $R^{244}$  respectively and independently represent a group selected from the group consisting of hydrogen, a linear or branched alkyl group having 1 to 6 carbon atoms, linear or branched alkoxy group having 1 to 6 carbon atoms, amino group, acetyl group, phenyl group and halogen group, X represents the following:



$l$  and  $m$  represent values from 0 to 6, and Y represents a group selected from the group consisting of a hydroxyl group, thiol group, amino group, epoxy group and epoxycyclohexyl group[()]).

Claim 7 (currently amended). A carbon nanotube composition according to ~~any one of claims 1 to 6~~ claim 1, wherein the carbon nanotube composition additionally contains a colloidal silica (h).

Claim 8 (currently amended). A carbon nanotube composition according to ~~any one of claims 1, and 3 to 7~~ claim 1, wherein the conducting polymer (a) is a water soluble conducting polymer.

Claim 9 (original). A carbon nanotube composition according to claim 8, wherein the water soluble conducting polymer has at least one of a sulfonic acid group and a carboxyl group.

Claim 10 (currently amended). A carbon nanotube composition according to claim 9, wherein the water soluble conducting polymer having at least one of a sulfonic acid group and a carboxyl group is a water soluble conducting polymer that contains 20 to 100% of at least one type of the repeating units selected from the following formulas (2) to (10) relative to the total number of repeating units throughout the entire polymer:



~~(in the formula (2), wherein in the formula (2)~~ R<sup>1</sup> and R<sup>2</sup> are respectively and independently selected from the group consisting of H, -SO<sub>3</sub><sup>-</sup>, -SO<sub>3</sub>H, -R<sup>35</sup>SO<sub>3</sub><sup>-</sup>, -R<sup>35</sup>SO<sub>3</sub>H, -OCH<sub>3</sub>, -CH<sub>3</sub>, -C<sub>2</sub>H<sub>5</sub>, -F, -Cl, -Br, -I, -N(R<sup>35</sup>)<sub>2</sub>, -NHCOR<sup>35</sup>, -OH, -O<sup>-</sup>, -SR<sup>35</sup>, -OR<sup>35</sup>, -OCOR<sup>35</sup>, -NO<sub>2</sub>, -COOH, -R<sup>35</sup>COOH, -COOR<sup>35</sup>, -COR<sup>35</sup>, -CHO and -CN, where R<sup>35</sup> represents an alkyl, aryl or aralkyl group having 1 to 24 carbon atoms or an alkylene, arylene or aralkylene group having 1 to 24 carbon atoms, and at least one of R<sup>1</sup> and R<sup>2</sup> is a group selected from the group consisting of -SO<sub>3</sub><sup>-</sup>, -SO<sub>3</sub>H, -R<sup>35</sup>SO<sub>3</sub><sup>-</sup>, -R<sup>35</sup>SO<sub>3</sub>H, -COOH and -R<sup>35</sup>COOH[D]];



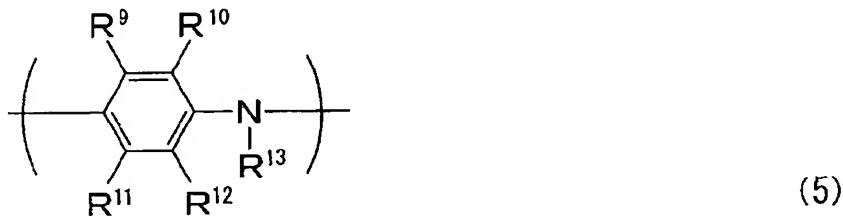
~~(in the formula (3), wherein in the formula (3)~~ R<sup>3</sup> and R<sup>4</sup> are respectively and independently selected from the group consisting of H, -SO<sub>3</sub><sup>-</sup>, -SO<sub>3</sub>H, -R<sup>35</sup>SO<sub>3</sub><sup>-</sup>, -R<sup>35</sup>SO<sub>3</sub>H, -OCH<sub>3</sub>, -CH<sub>3</sub>, -C<sub>2</sub>H<sub>5</sub>, -F, -Cl, -Br, -I, -N(R<sup>35</sup>)<sub>2</sub>, -NHCOR<sup>35</sup>, -OH, -O<sup>-</sup>, -SR<sup>35</sup>, -OR<sup>35</sup>, -OCOR<sup>35</sup>, -NO<sub>2</sub>, -COOH, -R<sup>35</sup>COOH, -COOR<sup>35</sup>, -COR<sup>35</sup>, -CHO and -CN, where R<sup>35</sup> represents an alkyl, aryl or aralkyl group having 1 to 24 carbon atoms or an alkylene, arylene or aralkylene group having 1 to 24

carbon atoms, and at least one of R<sup>3</sup> and R<sup>4</sup> is a group selected from the group consisting of -SO<sub>3</sub><sup>-</sup>, -SO<sub>3</sub>H, -R<sup>35</sup>SO<sub>3</sub><sup>-</sup>, -R<sup>35</sup>SO<sub>3</sub>H, -COOH and -R<sup>35</sup>COOH[[D]];



(4)

(in the formula (4), wherein in the formula (4) R<sup>5</sup> to R<sup>8</sup> are respectively and independently selected from the group consisting of H, -SO<sub>3</sub><sup>-</sup>, -SO<sub>3</sub>H, -R<sup>35</sup>SO<sub>3</sub><sup>-</sup>, -R<sup>35</sup>SO<sub>3</sub>H, -OCH<sub>3</sub>, -CH<sub>3</sub>, -C<sub>2</sub>H<sub>5</sub>, -F, -Cl, -Br, -I, -N(R<sup>35</sup>)<sub>2</sub>, -NHCOR<sup>35</sup>, -OH, -O<sup>-</sup>, -SR<sup>35</sup>, -OR<sup>35</sup>, -OCOR<sup>35</sup>, -NO<sub>2</sub>, -COOH, -R<sup>35</sup>COOH, -COOR<sup>35</sup>, -COR<sup>35</sup>, -CHO and -CN, where R<sup>35</sup> represents an alkyl, aryl or aralkyl group having 1 to 24 carbon atoms or an alkylene, arylene or aralkylene group having 1 to 24 carbon atoms, and at least one of R<sup>5</sup> to R<sup>8</sup> is a group selected from the group consisting of -SO<sub>3</sub><sup>-</sup>, -SO<sub>3</sub>H, -R<sup>35</sup>SO<sub>3</sub><sup>-</sup>, -R<sup>35</sup>SO<sub>3</sub>H, -COOH and -R<sup>35</sup>COOH[[D]]);

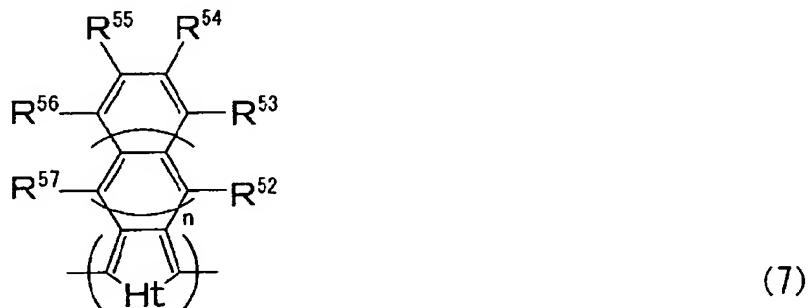


(5)

(in the formula (5), wherein in the formula (5) R<sup>9</sup> to R<sup>13</sup> are respectively and independently selected from the group consisting of H, -SO<sub>3</sub><sup>-</sup>, -SO<sub>3</sub>H, -R<sup>35</sup>SO<sub>3</sub><sup>-</sup>, -R<sup>35</sup>SO<sub>3</sub>H, -OCH<sub>3</sub>, -CH<sub>3</sub>, -C<sub>2</sub>H<sub>5</sub>, -F, -Cl, -Br, -I, -N(R<sup>35</sup>)<sub>2</sub>, -NHCOR<sup>35</sup>, -OH, -O<sup>-</sup>, -SR<sup>35</sup>, -OR<sup>35</sup>, -OCOR<sup>35</sup>, -NO<sub>2</sub>, -COOH, -R<sup>35</sup>COOH, -COOR<sup>35</sup>, -COR<sup>35</sup>, -CHO and -CN, where R<sup>35</sup> represents an alkyl, aryl or aralkyl group having 1 to 24 carbon atoms or an alkylene, arylene or aralkylene group having 1 to 24 carbon atoms, and at least one of R<sup>9</sup> to R<sup>13</sup> is a group selected from the group consisting of -SO<sub>3</sub><sup>-</sup>, -SO<sub>3</sub>H, -R<sup>35</sup>SO<sub>3</sub><sup>-</sup>, -R<sup>35</sup>SO<sub>3</sub>H, -COOH and -R<sup>35</sup>COOH[[D]]);

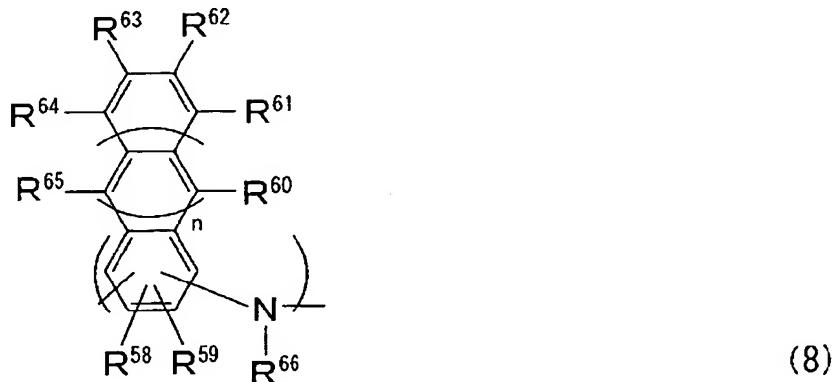


(in the formula (6), wherein in the formula (6)  $R^{14}$  is selected from the group consisting of  $-SO_3^-$ ,  $-SO_3H$ ,  $-R^{42}SO_3^-$ ,  $-R^{42}SO_3H$ ,  $-COOH$  and  $-R^{42}COOH$ , where  $R^{42}$  represents an alkylene, arylene or aralkylene group having 1 to 24 carbon atoms[()]);

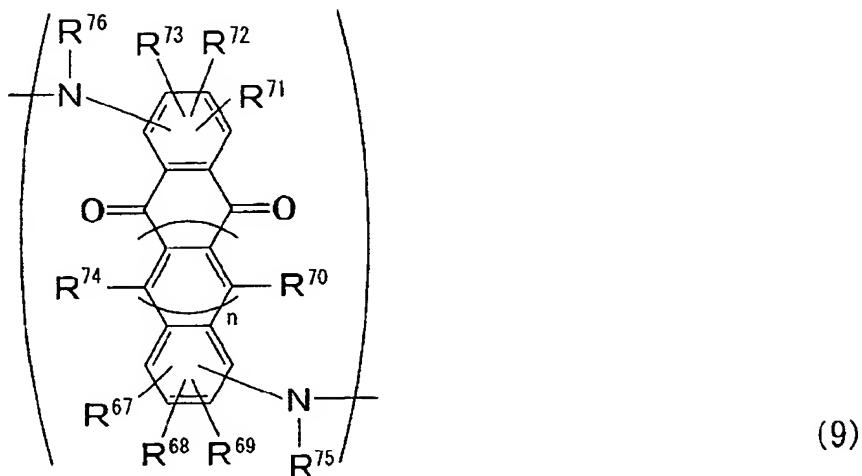


(in the formula (7), wherein in the formula (7)  $R^{52}$  to  $R^{57}$  are respectively and independently selected from the group consisting of H,  $-SO_3^-$ ,  $-SO_3H$ ,  $-R^{35}SO_3^-$ ,  $-R^{35}SO_3H$ ,  $-OCH_3$ ,  $-CH_3$ ,  $-C_2H_5$ ,  $-F$ ,  $-Cl$ ,  $-Br$ ,  $-I$ ,  $-N(R^{35})_2$ ,  $-NHCOR^{35}$ ,  $-OH$ ,  $-O^-$ ,  $-SR^{35}$ ,  $-OR^{35}$ ,  $-OCOR^{35}$ ,  $-NO_2$ ,  $-COOH$ ,  $-R^{35}COOH$ ,  $-COOR^{35}$ ,  $-COR^{35}$ ,  $-CHO$  and  $-CN$ , where  $R^{35}$  represents an alkyl, aryl or aralkyl group having 1 to 24 carbon atoms or an alkylene, arylene or aralkylene group having 1 to 24 carbon atoms, at least one of  $R^{52}$  to  $R^{57}$  is a group selected from the group consisting of  $-SO_3^-$ ,  $-SO_3H$ ,  $-R^{35}SO_3^-$ ,  $-R^{35}SO_3H$ ,  $-COOH$  and  $-R^{35}COOH$ ,  $Ht$  represents a heteroatom group selected from the group consisting of  $NR^{82}$ , S, O, Se and Te, where  $R^{82}$  represents hydrogen, a linear or branched alkyl group having 1 to 24 carbon atoms, or a substituted or non-substituted aryl group having 1 to 24 carbon atoms, the hydrocarbon chains of  $R^{52}$  to  $R^{57}$  mutually bond at arbitrary locations and may form a bivalent chain that forms at least one cyclic structure of saturated or unsaturated hydrocarbons of a 3 to 7-member ring together with the carbon atoms substituted by

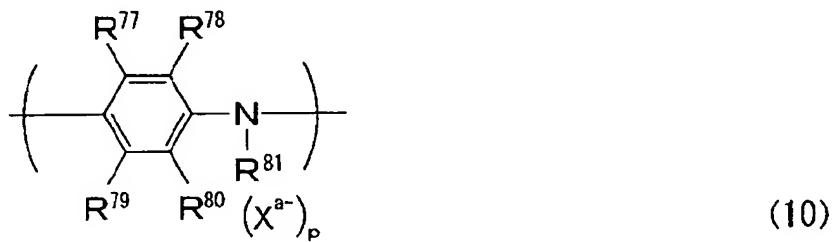
the groups, the cyclic bonded chain formed in this manner may contain a carbonyl ether, ester, amide, sulfide, sulfinyl, sulfonyl or imino bond at arbitrary locations, and n represents the number of condensed rings sandwiched between a hetero ring and a benzene ring having substituents R<sup>53</sup> to R<sup>56</sup>, and is 0 or an integer of 1 to 3[[D]]];



(in the formula (8), wherein in the formula (8) R<sup>58</sup> to R<sup>66</sup> are respectively and independently selected from the group consisting of H, -SO<sub>3</sub><sup>-</sup>, -SO<sub>3</sub>H, -R<sup>35</sup>SO<sub>3</sub><sup>-</sup>, -R<sup>35</sup>SO<sub>3</sub>H, -OCH<sub>3</sub>, -CH<sub>3</sub>, -C<sub>2</sub>H<sub>5</sub>, -F, -Cl, -Br, -I, -N(R<sup>35</sup>)<sub>2</sub>, -NHCOR<sup>35</sup>, -OH, -O<sup>-</sup>, -SR<sup>35</sup>, -OR<sup>35</sup>, -OCOR<sup>35</sup>, -NO<sub>2</sub>, -COOH, -R<sup>35</sup>COOH, -COOR<sup>35</sup>, -COR<sup>35</sup>, -CHO and -CN, where R<sup>35</sup> represents an alkyl, aryl or aralkyl group having 1 to 24 carbon atoms or an alkylene, arylene or aralkylene group having 1 to 24 carbon atoms, at least one of R<sup>58</sup> to R<sup>66</sup> is a group selected from the group consisting of -SO<sub>3</sub><sup>-</sup>, -SO<sub>3</sub>H, -R<sup>35</sup>SO<sub>3</sub><sup>-</sup>, -R<sup>35</sup>SO<sub>3</sub>H, -COOH and -R<sup>35</sup>COOH, and n represents the number of condensed rings sandwiched between a benzene ring having substituents R<sup>58</sup> and R<sup>59</sup> and a benzene ring having substituents R<sup>61</sup> to R<sup>64</sup>, and is 0 or an integer of 1 to 3[[D]]];



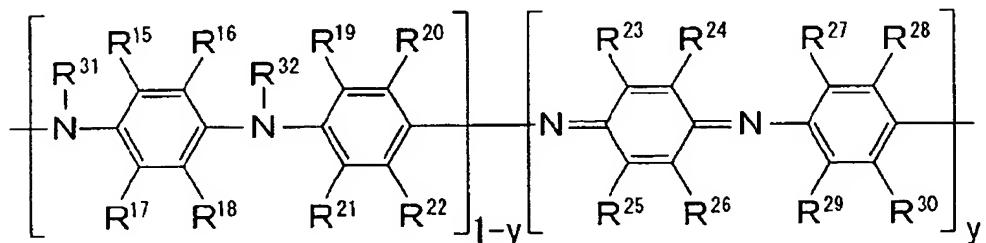
(in the formula (9), wherein in the formula (9)  $R^{67}$  to  $R^{76}$  are respectively and independently selected from the group consisting of H,  $-SO_3^-$ ,  $-SO_3H$ ,  $-R^{35}SO_3^-$ ,  $-R^{35}SO_3H$ ,  $-OCH_3$ ,  $-CH_3$ ,  $-C_2H_5$ ,  $-F$ ,  $-Cl$ ,  $-Br$ ,  $-I$ ,  $-N(R^{35})_2$ ,  $-NHCOR^{35}$ ,  $-OH$ ,  $-O^-$ ,  $-SR^{35}$ ,  $-OR^{35}$ ,  $-OCOR^{35}$ ,  $-NO_2$ ,  $-COOH$ ,  $-R^{35}COOH$ ,  $-COOR^{35}$ ,  $-COR^{35}$ ,  $-CHO$  and  $-CN$ , where  $R^{35}$  represents an alkyl, aryl or aralkyl group having 1 to 24 carbon atoms or an alkylene, arylene or aralkylene group having 1 to 24 carbon atoms, at least one of  $R^{67}$  to  $R^{76}$  is a group selected from the group consisting of  $-SO_3^-$ ,  $-SO_3H$ ,  $-R^{35}SO_3^-$ ,  $-R^{35}SO_3H$ ,  $-COOH$  and  $-R^{35}COOH$ , and n represents the number of condensed rings sandwiched between a benzene ring having substituents  $R^{67}$  to  $R^{69}$  and a benzoquinone ring, and is 0 or an integer of 1 to 3[[[]]]; and,



(in the formula (10), wherein in the formula (10) R<sup>77</sup> to R<sup>81</sup> are respectively and independently selected from the group consisting of H, -SO<sub>3</sub><sup>-</sup>, -SO<sub>3</sub>H, -R<sup>35</sup>SO<sub>3</sub><sup>-</sup>, -R<sup>35</sup>SO<sub>3</sub>H, -OCH<sub>3</sub>, -CH<sub>3</sub>, -C<sub>2</sub>H<sub>5</sub>, -F, -Cl, -Br, -I, -N(R<sup>35</sup>)<sub>2</sub>, -NHCOR<sup>35</sup>, -OH, -O<sup>-</sup>, -SR<sup>35</sup>, -OR<sup>35</sup>, -OCOR<sup>35</sup>, -NO<sub>2</sub>, -COOH, -

$R^{35}COOH$ ,  $-COOR^{35}$ ,  $-COR^{35}$ ,  $-CHO$  and  $-CN$ , where  $R^{35}$  represents an alkyl, aryl or aralkyl group or alkylene, arylene having 1 to 24 carbon atoms or an aralkylene group having 1 to 24 carbon atoms, at least one of  $R^{77}$  to  $R^{81}$  is a group selected from the group consisting of  $-SO_3^-$ ,  $-SO_3H$ ,  $-R^{35}SO_3^-$ ,  $-R^{35}SO_3H$ ,  $-COOH$  and  $-R^{35}COOH$ ,  $Xa^-$  is at least one type of anion selected from the group of anions having a valence of 1 to 3 consisting of a chlorine ion, bromine ion, iodine ion, fluorine ion, nitrate ion, sulfate ion, hydrogensulfate ion, phosphate ion, borofluoride ion, perchlorate ion, thiocyanate ion, acetate ion, propionate ion, methane sulfonate ion, p-toluene sulfonate ion, trifluoroacetate ion and trifluoromethane sulfonate ion,  $a$  represents the ion valence of  $X$  and is an integer of 1 to 3, and  $p$  represents the doping ratio and has a value of 0.001 to  $1[D]$ .

Claim 11 (currently amended). A carbon nanotube composition according to claim 9, wherein the water soluble conducting polymer having at least one of a sulfonic acid group and a carboxyl group is a water soluble conducting polymer that contains 20 to 100% of the repeating unit represented by the following formula (11) relative to the total number of repeating units throughout the entire polymer:

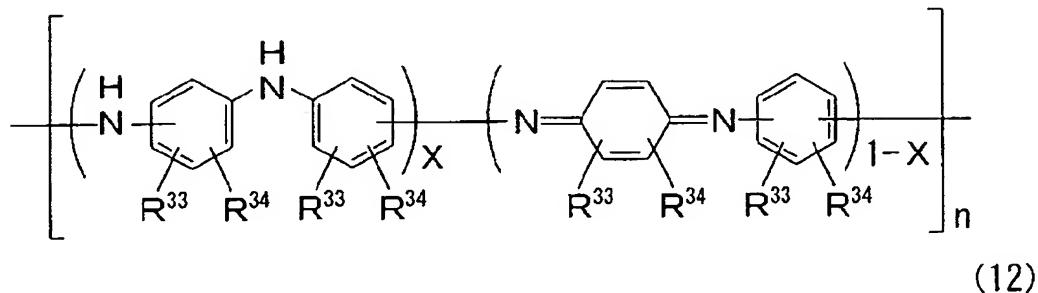


(11)

~~(in the formula (11), wherein in the formula (11) y represents an arbitrary number such that  $0 < y < 1$ ,  $R^{15}$  to  $R^{32}$  are respectively and independently selected from the group consisting of  $H$ ,  $-SO_3^-$ ,  $-SO_3H$ ,  $-R^{35}SO_3^-$ ,  $-R^{35}SO_3H$ ,  $-OCH_3$ ,  $-CH_3$ ,  $-C_2H_5$ ,  $-F$ ,  $-Cl$ ,  $-Br$ ,  $-I$ ,  $-N(R^{35})_2$ ,  $-NHCOR^{35}$ ,  $-OH$ ,  $-O^-$ ,~~

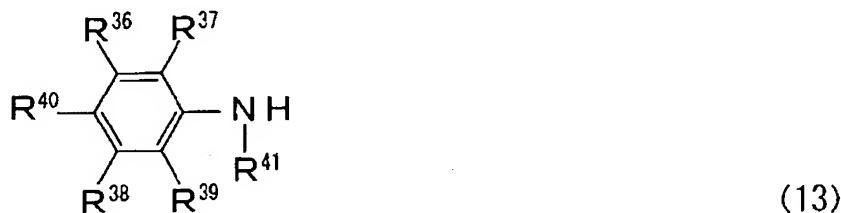
-SR<sup>35</sup>, -OR<sup>35</sup>, -OCOR<sup>35</sup>, -NO<sub>2</sub>, -COOH, -R<sup>35</sup>COOH, -COOR<sup>35</sup>, -COR<sup>35</sup>, -CHO and -CN, where R<sup>35</sup> represents an alkyl, aryl or aralkyl group having 1 to 24 carbon atoms or an alkylene, arylene or aralkylene group having 1 to 24 carbon atoms, and at least one of R<sup>15</sup> to R<sup>32</sup> is a group selected from the group consisting of -SO<sub>3</sub><sup>-</sup>, -SO<sub>3</sub>H, -R<sup>35</sup>SO<sub>3</sub><sup>-</sup>, -R<sup>35</sup>SO<sub>3</sub>H, -COOH and -R<sup>35</sup>COOH[[]]).

Claim 12 (original). A carbon nanotube composition according to claim 9, wherein the water soluble conducting polymer having at least one of a sulfonic acid group and a carboxyl group is represented by the following formula (12):



(in the formula (12), wherein in the formula (12) R<sup>33</sup> represents one group selected from the group consisting of a sulfonic acid group, carboxyl group, their alkaline metal salts, ammonium salts and substituted ammonium salts, R<sup>34</sup> represents one group selected from the group consisting of a methyl group, ethyl group, n-propyl group, iso-propyl group, n-butyl group, iso-butyl group, sec-butyl group, tert-butyl group, dodecyl group, tetracosyl group, methoxy group, ethoxy group, n-propoxy group, iso-butoxy group, sec-butoxy group, tert-butoxy group, heptoxy group, hexoxy group, octoxy group, dodecoxy group, tetracoxy group, fluoro group, chloro group and bromo group, X represents an arbitrary number such that 0 < X < 1, and n represents the degree of polymerization and has a value of 3 or more[[]]).

Claim 13 (currently amended). A carbon nanotube composition according to claim 9, wherein the water soluble conducting polymer having at least one of a sulfonic acid group and a carboxyl group is a water soluble conducting polymer obtained by polymerizing at least one of type of acidic group-substituted aniline represented by the following formula (13), its alkaline metal salt, ammonium salt and substituted ammonium salt, with an oxidizing agent in a solution containing a basic compound:

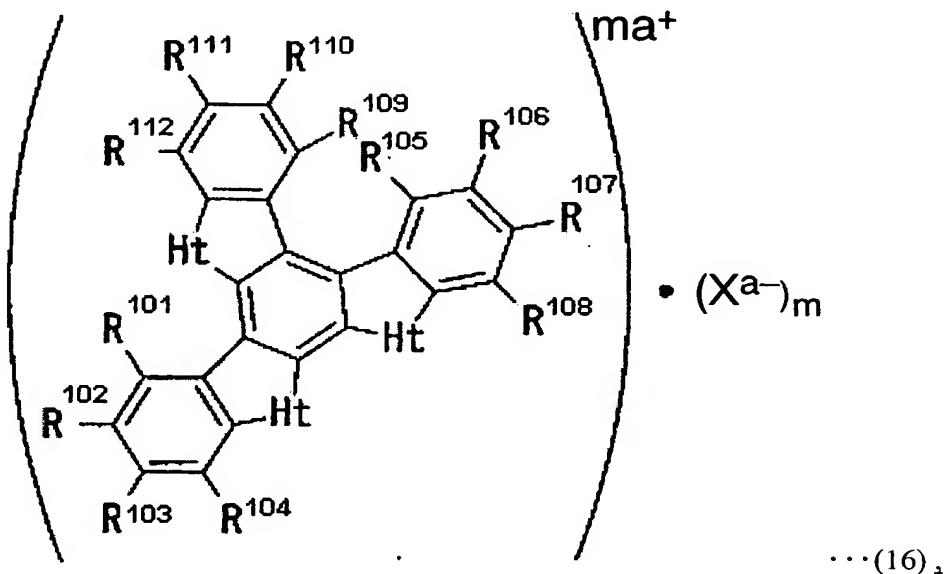


~~(in the formula (13), wherein in the formula (13)~~ R<sup>36</sup> to R<sup>41</sup> are respectively and independently selected from the group consisting of H, -SO<sub>3</sub>-, -SO<sub>3</sub>H, -R<sup>35</sup>SO<sub>3</sub>-, -R<sup>35</sup>SO<sub>3</sub>H, -OCH<sub>3</sub>, -CH<sub>3</sub>, -C<sub>2</sub>H<sub>5</sub>, -F, -Cl, -Br, -I, -N(R<sup>35</sup>)<sub>2</sub>, -NHCOR<sup>35</sup>, -OH, -O<sup>-</sup>, -SR<sup>35</sup>, -OR<sup>35</sup>, -OCOR<sup>35</sup>, -NO<sub>2</sub>, -COOH, -R<sup>35</sup>COOH, -COOR<sup>35</sup>, -COR<sup>35</sup>, -CHO and -CN, where R<sup>35</sup> represents an alkyl, aryl or aralkyl group having 1 to 24 carbon atoms or an alkylene, arylene or aralkylene group having 1 to 24 carbon atoms, and at least one of R<sup>36</sup> to R<sup>41</sup> is a group selected from the group consisting of -SO<sub>3</sub>-, -SO<sub>3</sub>H, -R<sup>35</sup>SO<sub>3</sub>-, -R<sup>35</sup>SO<sub>3</sub>H, -COOH and -R<sup>35</sup>COOH[()]).

Claim 14 (original). A carbon nanotube composition according to claim 9, wherein the water soluble conducting polymer having at least one of a sulfonic acid group and a carboxyl group is a water soluble conducting polymer obtained by polymerizing at least one type of alkoxy group-substituted aminobenzene sulfonic acid, its alkaline metal salt, ammonium salt and substituted ammonium salt, with an oxidizing agent in a solution containing a basic compound.

Claim 15 (original). A carbon nanotube composition according to claim 9, wherein the water soluble conducting polymer having at least one of a sulfonic acid group and a carboxyl group is polyethylene dioxythiophene polystyrene sulfate.

Claim 16 (currently amended). A carbon nanotube composition according to ~~any one of claims 2 to 7~~ claim 2, wherein the composition contains a heterocyclic compound trimer (i) that is a heterocyclic compound trimer represented by the following formula (16):

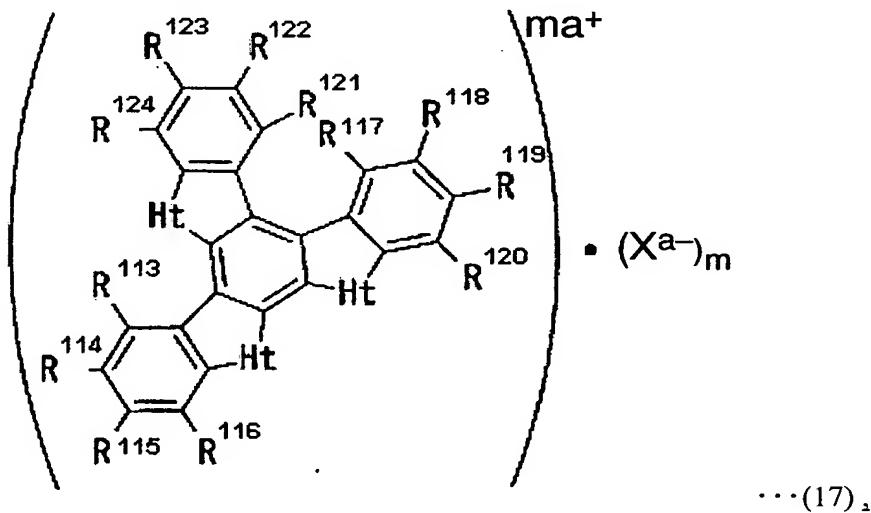


~~(in the formula (16), wherein in the formula (16) R<sup>101</sup> to R<sup>112</sup> are substituents respectively and independently selected from the group consisting of hydrogen, a linear or branched alkyl group having 1 to 24 carbon atoms, a linear or branched alkoxy group having 1 to 24 carbon atoms, linear or branched acyl group having 2 to 24 carbon atoms, aldehyde group, carboxyl group, linear or branched carboxylic ester group having 2 to 24 carbon atoms, sulfonic acid group, linear or branched sulfonic ester group having 1 to 24 carbon atoms, cyano group, hydroxyl group, nitro group, amino group, amido group, dicyanovinyl group, alkyl (linear or branched alkyl group having 1 to 8 carbon atoms) oxycarbonylcyanovinyl group, nitrophenylcyanovinyl group and halogen group;~~

Ht represents a heteroatom group selected from the group consisting of NR<sup>154</sup>, S, O, Se and Te, and R<sup>154</sup> represents a substituent selected from the group consisting of hydrogen and a linear or branched alkyl group having 1 to 24 carbon atoms;

X<sup>a-</sup> represents at least one type of anion selected from the group consisting of anions having a valence of 1 to 3 consisting of a chlorine ion, bromine ion, iodine ion, fluorine ion, nitrate ion, sulfate ion, hydrogensulfate ion, phosphate ion, borofluoride ion, perchlorate ion, thiocyanate ion, acetate ion, propionate ion, methane sulfonate ion, p-toluene sulfonate ion, trifluoroacetate ion and trifluoromethane sulfonate ion; a represents the ion valence of X and is an integer of 1 to 3; and, m represents the doping ratio and has a value of 0 to 3.0[()].

Claim 17 (currently amended). A carbon nanotube composition according to ~~any one of claims 2 to 7 claim 2~~, wherein the composition contains a heterocyclic compound trimer (i) that is a heterocyclic compound trimer represented by the following general formula (17):



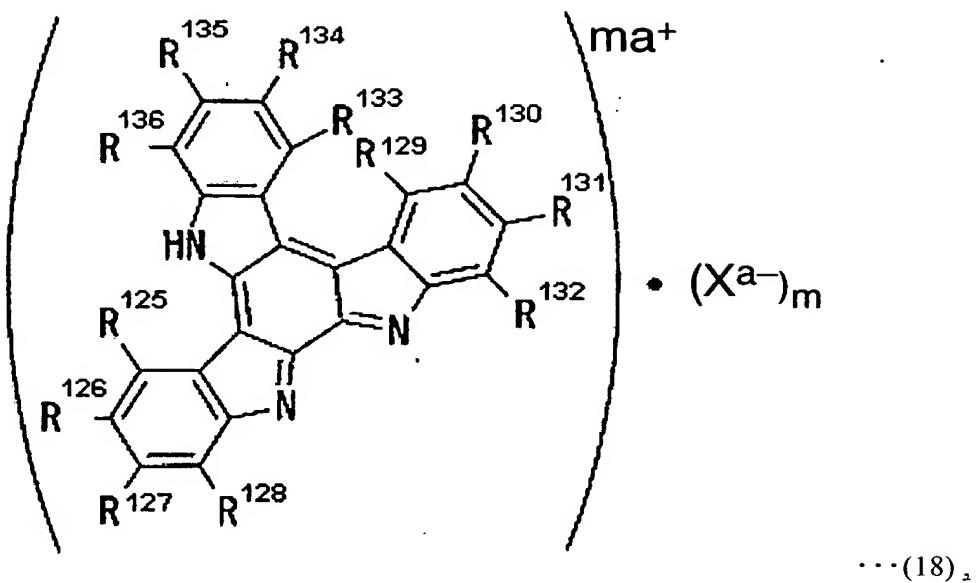
~~(in the formula (17), wherein in the formula (17) R<sup>113</sup> to R<sup>124</sup> represent substituents respectively and independently selected from the group consisting of hydrogen, a linear or branched alkyl group having 1 to 24 carbon atoms, linear or branched alkoxy group having 1 to 24 carbon atoms, linear or branched acyl group having 2 to 24 carbon atoms, aldehyde group, carboxyl group, linear or branched carboxylic ester group having 2 to 24 carbon atoms, sulfonic acid group, linear~~

or branched sulfonic ester group having 1 to 24 carbon atoms, cyano group, hydroxyl group, nitro group, amino group, amido group, dicyanovinyl group, alkyl (linear or branched alkyl group having 1 to 8 carbon atoms) oxycarbonylcyanovinyl group, nitrophenylcyanovinyl group and halogen group; at least one of R<sup>113</sup> to R<sup>124</sup> is a cyano group, nitro group, amide group, halogen group, sulfonic acid group, and carboxyl group;

Ht represents a heteroatom group selected from the group consisting of NR<sup>154</sup>, S, O, Se and Te, and R<sup>154</sup> represents a substituent selected from the group consisting of hydrogen and a linear or branched alkyl group having 1 to 24 carbon atoms;

X<sup>a-</sup> represents at least one type of anion selected from the group consisting of anions having a valence of 1 to 3 consisting of a chlorine ion, bromine ion, iodine ion, fluorine ion, nitrate ion, sulfate ion, hydrogen sulfate ion, phosphate ion, borofluoride ion, perchlorate ion, thiocyanate ion, acetate ion, propionate ion, methane sulfonate ion, p-toluene sulfonate ion, trifluoroacetate ion and trifluoromethane sulfonate ion; a represents the ion valence of X and is an integer of 1 to 3; and, m represents the doping ratio and has a value of 0 to 3.0[[]].

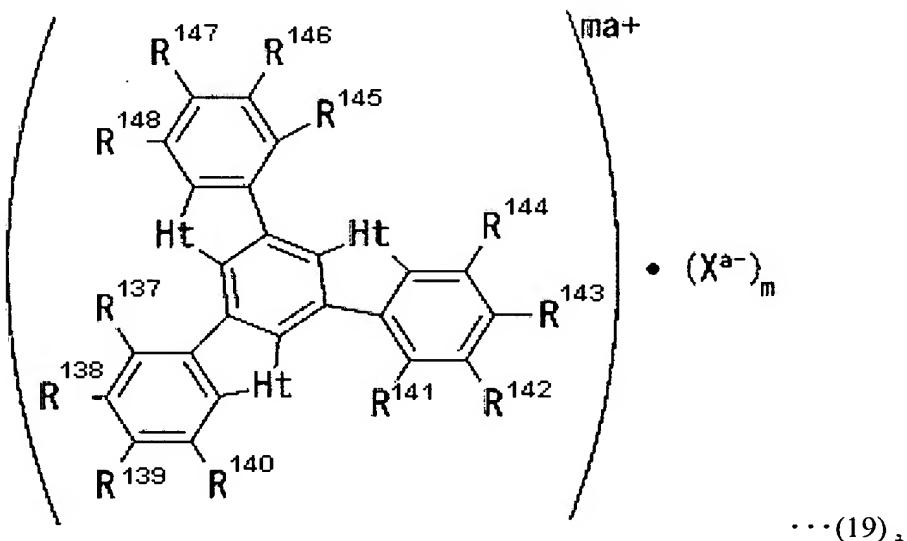
Claim 18 (currently amended). A carbon nanotube composition according to ~~any one of claims 2 to 7~~ claim 2, wherein the composition contains a heterocyclic compound trimer (i) that is a heterocyclic compound trimer represented by the following general formula (18):



(in the formula (18), wherein in the formula (18) R<sup>125</sup> to R<sup>136</sup> are substituents respectively and independently selected from the group consisting of hydrogen, a linear or branched alkyl group having 1 to 24 carbon atoms, linear or branched alkoxy group having 1 to 24 carbon atoms, linear or branched acyl group having 2 to 24 carbon atoms, aldehyde group, carboxylic acid group and its alkaline metal salt, ammonium salt and substituted ammonium salt, linear or branched carboxylic ester group having 2 to 24 carbon atoms, sulfonic acid group and its alkaline metal salt, ammonium salt and substituted ammonium salt, linear or branched sulfonic ester group having 1 to 24 carbon atoms, cyano group, hydroxyl group, nitro group, amino group, amido group, dicyanovinyl group, alkyl (linear or branched alkyl group having 1 to 8 carbon atoms)oxycarbonylcyanovinyl group, nitrophenylcyanovinyl group and halogen group;

X<sup>a-</sup> represents at least one type of anion selected from the group consisting of anions having a valence of 1 to 3 consisting of a chlorine ion, bromine ion, iodine ion, fluorine ion, nitrate ion, sulfate ion, hydrogen sulfate ion, phosphate ion, borofluoride ion, perchlorate ion, thiocyanate ion, acetate ion, propionate ion, methane sulfonate ion, p-toluene sulfonate ion, trifluoroacetate ion and trifluoromethane sulfonate ion; a represents the ion valence of X and is an integer of 1 to 3; and, m represents the doping ratio and has a value of 0 to 3.0[()]].

Claim 19 (currently amended). A carbon nanotube composition according to ~~any one of claims 2 to 7~~ claim 2, wherein the composition contains a heterocyclic compound trimer (i) that is a heterocyclic compound trimer represented by the following general formula (19):

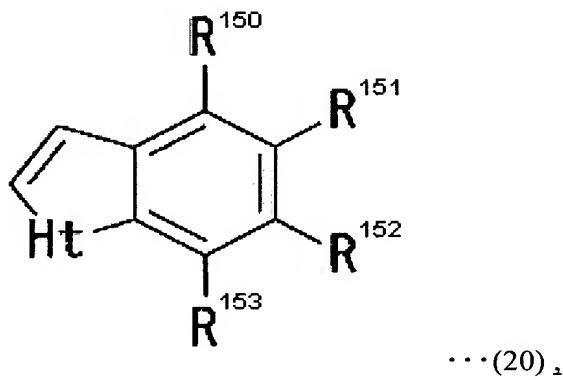


~~(in the formula (19), wherein in the formula (19)~~  $R^{137}$  to  $R^{148}$  are substituents respectively and independently selected from the group consisting of hydrogen, a linear or branched alkyl group having 1 to 24 carbon atoms, linear or branched alkoxy group having 1 to 24 carbon atoms, linear or branched acyl group having 2 to 24 carbon atoms, aldehyde group, carboxyl group, linear or branched carboxylic ester group having 2 to 24 carbon atoms, sulfonic acid group, linear or branched sulfonic ester group having 1 to 24 carbon atoms, cyano group, hydroxyl group, nitro group, amino group, amido group, dicyanovinyl group, alkyl (linear or branched alkyl group having 1 to 8 carbon atoms)oxycarbonylcyanovinyl group, nitrophenylcyanovinyl group and halogen group;

Ht represents a heteroatom group selected from the group consisting of  $NR^{154}$ , S, O, Se and Te, and  $R^{154}$  represents a substituent selected from the group consisting of hydrogen and a linear or branched alkyl group having 1 to 24 carbon atoms;

$X^{a-}$  represents at least one type of anion selected from the group consisting of anions having a valence of 1 to 3 consisting of a chlorine ion, bromine ion, iodine ion, fluorine ion, nitrate ion, sulfate ion, hydrogen sulfate ion, phosphate ion, borofluoride ion, perchlorate ion, thiocyanate ion, acetate ion, propionate ion, methane sulfonate ion, p-toluene sulfonate ion, trifluoroacetate ion and trifluoromethane sulfonate ion;  $a$  represents the ion valence of  $X$  and is an integer of 1 to 3; and,  $m$  represents the doping ratio and has a value of 0 to 3.0[()]].

Claim 20 (currently amended). A carbon nanotube composition according to ~~any one of claims 2 to 7~~ claim 2, wherein the composition contains a heterocyclic compound trimer (i) that is a heterocyclic compound trimer obtained by reacting at least one type of heterocyclic compound represented by the following general formula (20) in a reaction mixture containing at least one type of oxidizing agent and at least one type of solvent:



~~(in the formula (20), wherein in the formula (20)~~  $R^{150}$  to  $R^{153}$  are substituents respectively and independently selected from the group consisting of hydrogen, a linear or branched alkyl group having 1 to 24 carbon atoms, linear or branched alkoxy group having 1 to 24 carbon atoms, linear or branched acyl group having 2 to 24 carbon atoms, aldehyde group, carboxyl group, linear or branched carboxylic ester group having 2 to 24 carbon atoms, sulfonic acid group, linear or branched sulfonic ester group having 1 to 24 carbon atoms, cyano group, hydroxyl group, nitro group, amino group, amido group, dicyanovinyl group, alkyl (linear or branched alkyl group

having 1 to 8 carbon atoms)oxycarbonylcyanovinyl group, nitrophenylcyanovinyl group and halogen group; and,

Ht represents a heteroatom group selected from the group consisting of NR<sup>154</sup>, S, O, Se and Te, and R<sup>154</sup> represents a substituent selected from the group consisting of hydrogen and a linear or branched alkyl group having 1 to 24 carbon atoms[[]].

Claim 21 (currently amended). A carbon nanotube composition according to ~~any one of claims 2 to 7~~ claim 2, wherein said carbon nanotube composition includes a the heterocyclic compound trimer (i) has having a layered structure.

Claim 22 (currently amended). A production method of a carbon nanotube composition comprising: irradiating a carbon nanotube composition according to ~~any one of claims 1 to 21~~ claim 1 with ultrasonic waves and mixing.

Claim 23 (currently amended). A composite comprising a base material, and a coated film composed of the carbon nanotube composition according to ~~any one of claims 1 to 21~~ claim 1 on at least one surface of the base material.

Claim 24 (currently amended). A ~~production~~ method of producing a composite comprising: coating the carbon nanotube composition according to ~~any of claims 1 to 21~~ claim 1 onto at least one surface of a base material, and forming a coated film by allowing the coated carbon nanotube to stand at room temperature or subjecting it to heat treatment.

Claim 25 (original). A production method of a composite according to claim 24, wherein the heat treatment is carried out within a temperature range of normal temperature to 250°C.